HP Z230 Tower Workstation

Affordable performance and flexibility, re-defined.
Create a totally immersive work environment for those who demand reliability and performance on a budget. Designed for heavy 24x7x365 workloads, the HP Z230 delivers next-generation processor and graphics technologies in a redesigned, compact yet impressively expandable tower.

HP recommends Windows.

Rock solid reliability, affordably priced

Designed for heavy 24x7x365 workloads. The affordable HP Z230 Tower Workstation handles the demanding workloads of business applications.
Gain peace of mind from our extreme test and validation processes with workstations designed for always-on environments.
Control your environmental impact better than ever[1] while lowering your total cost of ownership with a 92% efficient power supply and enhanced system reliability.
Work smarter with your software tools. This HP workstation has earned a wide range of ISV certifications to deliver better, smarter performance.

Power for now, room to grow

Grow along with your business. The HP Z230 Tower Workstation is designed to scale and expand, so you can add more storage and connectivity when you need it.
Complete computing power in a new compact design. HP's redesigned and more compact workstation is robust and flexible, while freeing up more space for work.
Spend less time waiting. Speed up data transfers with six available drive bays including a 6,3 cm (2.5") HD bay for high speed solid state drives.
Boost your storage performance with RAID, solid state drives, or get the best of both worlds by combining large hard drives with an optional solid state drive as a cache device.[2]
Optimize this workstation for peak performance. HP Performance Advisor helps you easily configure your system with the best settings designed for specific applications.[3]

Totally immersive. Perfectly productive.

Power to spare—and share. The latest Intel® Xeon® processors[4] and rich graphics keep up with your work. Plug in and work on up to six displays.[5 6]
Enjoy the latest in performance and energy efficiency from Intel's next generation processor architecture.
Keep more work front-and-center with support for up to six monitors. Choose between cost-effective integrated graphics and powerful 2D or 3D discrete graphics choices.[5 6]
Easily connect your peripherals and devices using the four PCIe slots[7], one PCI input/output slot, ten external USB ports and the fast charging USB port.
With HP RGS you can take your graphics intensive workstation applications wherever you go. Collaborate with colleagues around the office or around the world, in real time.

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HP recommends Windows.

Form Factor	Minitower
Operating System	Windows 8 Pro 64 Windows 7 Professional 32 (available through downgrade rights from Windows 8 Pro 64) Windows 7 Professional 64 (available through downgrade rights from Windows 8 Pro 64) Windows 7 Ultimate 64 Windows 7 Professional 32 Windows 7 Professional 64 Windows 7 Home Premium 64 SUSE Linux Enterprise Desktop 11 HP Installer Kit for Linux
Processor Family	Intel® Xeon® E3 processor; Intel® Core™ i7 processor; Intel® Core™ i5 processor
Processor	Intel® Xeon® E3-1280v3 (3.6 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1270v3 (3.5 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1245v3 with Intel HD Graphics P4600 (3.4 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1240v3 (3.4 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1230v3 (3.3 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1225v3 with Intel HD Graphics P4600 (3.2 GHz, 8 MB cache, 4 cores); Intel® Core™ i7-4770 with Intel HD Graphics 4600 (3.4 GHz, 8 MB cache, 4 cores); Intel® Core™ i5-4670 with Intel HD Graphics 4600 (3.4 GHz, 6 MB cache, 4 cores); Intel® Core™ i5-4570 with Intel HD Graphics 4600 (3.2 GHz, 6 MB cache, 4 cores)
Chipset	Intel® PCH C226
Memory	Up to 32 GB 1600 MHz DDR3 Unbuffered SDRAM Memory slots: 4 DIMM Standard memory note: Up to 32 GB ECC/non-ECC. ECC/non-ECC choice and actual memory speed dependent on processor capability.
Graphics	Integrated, Intel® HD Graphics P4600; Intel® HD Graphics 4600 Professional 2D, NVIDIA NVS 310 (512 MB); NVIDIA NVS 315 (1 GB); NVIDIA NVS 510 (2 GB) Entry 3D, AMD FirePro V3900 (1 GB); NVIDIA Quadro 410 (512 MB); NVIDIA Quadro K600 (1 GB) Mid-range 3D, NVIDIA Quadro K2000 (2 GB) High-end 3D, AMD FirePro W7000 (4 GB); NVIDIA Quadro K4000 (3 GB)
Removable Media	SATA Blu-ray writer; SATA SuperMulti DVD writer; SATA DVD-ROM
Audio	Integrated High Definition Realtek ALC221 Audio; HP Thin USB Powered Speakers (optional)
Internal Storage	250 GB, up to 1 TB, SATA (10000 rpm) 500 GB, up to 3 TB, SATA (7200 rpm) up to 500 GB, SATA SED 128 GB, up to 256 GB, SATA SSD up to 256 GB, SATA SE SSD
Communications	Integrated Intel I217LM PCIe Gigabit controller; Intel Ethernet I210-T1 PCIe NIC (optional); HP X520 10 Gigabit Ethernet Dual-Port Adapter (optional); HP Wireless 802.11b/g/n PCIe NIC (optional)
Ports and Connectors	4 USB 3.0; 5 USB 2.0; 1 USB 2.0 (charging); 2 microphone; 1 headphone; 1 audio line in; 1 audio line out; 1 RJ-45; 2 PS/2
Security	HP Solenoid Lock and Hood (TWR) Sensor (optional); Security cable with Kensington lock (optional); HP Business PC Security Lock kit (optional)
Software	HP Performance Advisor; HP Remote Graphics Software 6.0; HP ProtectTools Security (optional); PDF Complete - Corporate Edition; Cyberlink Media Suite & PowerDVD; Microsoft Office Home and Business 2013 (optional); HP PC Hardware Diagnostics UEFI
Dimensions	17 x 44.2 x 39.9 cm Standard minitower orientation
Weight	Starting at 8.8 kg Exact weight depends upon configuration
Energy Efficiency Compliance	ENERGY STAR® qualified configurations available
Power	400W 92% efficient, wide-ranging, Active Power Factor Correction
Expansion Slots	1 PCIe Gen3 x16; 1 PCIe Gen2 x4 (x16 connector); 1 PCIe Gen2 x1 (x4 connector); 1 PCIe Gen2 x1; 1 PCI Two 13,3 cm (5.25"); 1 slim optical drive bay Two 8,9 cm (3.5"); One 6,3 cm (2.5")
Warranty	3-year limited warranty including 3 years of parts, labour, and next-business-day onsite service. Terms and conditions vary by country. Certain restrictions and exclusions apply.

[1] When comparing previous generations of HP Workstations.
[2] Requires a compatible Intel® Core processor, enabled chipset, Intel® Rapid Storage technology software and non-SED HDD + optional 6,3 cm (2.5") SSD flash cache module. Intel® Smart Response Technology is only available on select HP systems. Read performance levels assume that the data to be read is in the cache. Depending on system configuration, results may vary.
[3] Requires Windows 7 or Windows 8.
[4] Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
[5] Requires both NVIDIA NVS 510 and NVS 310 graphics cards to be installed.
[6] Optional feature sold separately or as an add on feature.

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Not all features are available in all editions of Windows 8. Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 8 functionality. See http://www.microsoft.com/windows for details. **Learn more at www.hp.eu/workstations**

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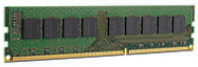
Accessories and services (not included)

HP 8GB (1x8GB) DDR3-1600 Non-ECC RAM



HP 8GB (1x8GB) DDR3-1600 Non-ECC RAM DIMMs. Boost the capabilities of your HP Workstation and keep it performing reliably with HP memory. Upgrading your memory is a cost-effective way to improve system performance when insufficient memory and hard drive paging is slowing your applications down.
Product number: B1S54AA

HP Blu-Ray BDXL SATA Drive

Get exceptional backup ability, and create and edit HD videos with the HP Blu-ray BDXL SATA Drive. Maintain efficient transfer rates and conformance to worldwide DVD standards with a high-quality, cost-effective storage solution.[1,2]
Product number: B4F70AA

HP DX115 Removable Hard Drive (Frame and Carrier) Enclosure

The HP DX115 Removable Enclosure is a rugged drive carrier and receiving frame for internally mounting a SATA or SAS hard drive into a 5.25 inch optical drive bay in an HP Workstation.
Product number: FZ576AA

5-year Next Business Day Onsite

Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.
Product number: U7944E

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[2] Requires a compatible Intel® Core processor, enabled chipset, Intel® Rapid Storage technology software and non-SED HDD + optional 6,3 cm (2.5") SSD flash cache module. Intel® Smart Response Technology is only available on select HP systems. Read performance levels assume that the data to be read is in the cache. Depending on system configuration, results may vary.

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Not all features are available in all editions of Windows 8. Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 8 functionality. See http://www.microsoft.com/windows for details.**Learn more at www.hp.eu/hpoptions**

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